

Ephemeris (continuation). By MM. R. Luther and E. Vogel.For ϕ^h Berlin M.T.

1852. Jan. 1	R.A.			Decl.			Log Δ .	Time of Aberr. in Decimals of a Day.
	h	m	s	°	'	"		
1	1	37	26.00	+	4	15 45.1	0.300070	0.01139
2		38	4.24		22	4.2	.303015	01147
3		38	43.71		28	28.9	.305949	01155
4		39	24.43		34	59.2	.308872	01162
5		40	6.33		41	34.8	.311784	01170
6		40	49.43		48	15.5	.314685	01178
7		41	33.69	+4	55	1.1	.317574	01186
8		42	19.09	+5	1	51.7	.320451	01194
9		43	5.64		8	47.0	.323315	01202
10		43	53.30		15	46.7	.326165	01210
11		44	42.07		22	50.9	.329001	01218
12		45	31.92		29	59.3	.331824	01225
13		46	22.84		37	11.8	.334632	01233
14		47	14.81		44	28.3	.337425	01241
15		48	7.83		51	48.7	.340204	01249
16		49	1.87	+5	59	12.7	.342968	01257
17		49	56.91	+6	6	40.3	.345717	01265
18		50	52.95		14	11.4	.348450	01273
19		51	49.96		21	45.9	.351168	01281
20		52	47.94		29	23.5	.353869	01289
21		53	46.87		37	4.3	.356554	01297
22		54	46.74		44	48.1	.359221	01305
23		55	47.54	+6	52	34.6	.361870	01313
24		56	49.24	+7	0	23.9	.364502	01321
25		57	51.83		8	15.7	.367117	01329
26		58	55.31		16	9.9	.369714	01337
27	1	59	59.63		24	6.4	.372294	01345
28	2	1	4.79		32	5.0	.374855	01353
29		2	10.79		40	5.6	.377399	01361
30		3	17.61		48	8.1	.379924	01369
31		4	25.23	+7	56	12.5	.382431	01377
Feb. 1		5	33.64	+8	4	18.5	.384919	01385
2		6	42.83		12	26.0	.387389	01393
3		7	52.77		20	35.0	.389840	01401
4		9	3.46		28	45.2	.392273	01409
5		10	14.89		36	56.7	.394687	01416
6		11	27.04		45	9.3	.397083	01424
7		12	39.91	+8	53	22.8	.399460	01432
8		13	53.48	+9	1	37.2	.401818	01440
9		15	7.55		9	52.4	.404157	01448
10	2	16	22.69	+9	18	8.3	0.406478	0.01455

1852.	R.A.			Decl.			Log Δ.	Time of Aberr. in Decimals of a Day.
	h	m	s	°	'	"		
Feb. 11	2	17	38.31	+9	26	24.8	0.408780	0.01463
12		18	54.61		34	41.7	.411064	01471
13		20	11.56		42	59.1	.413328	01478
14		21	29.16		51	16.8	.415574	01486
15		22	47.41	+ 9	59	34.8	.417801	01494
16		24	6.29	+ 10	7	53.0	.420009	01501
17		25	25.79		16	11.2	.422198	01509
18		26	45.91		24	29.4	.424368	01517
19		28	6.64		32	47.4	.426519	01524
20		29	27.94		41	5.3	.428651	01532
21		30	49.87		49	22.8	.430764	01539
22		32	12.35	+ 10	57	39.9	.432857	01546
23		33	35.41	+ 11	5	56.6	.434931	01554
24		34	59.04		14	12.6	.436987	01561
25		36	23.21		22	28.0	.439024	01569
26		37	47.92		30	42.6	.441041	01576
27		39	13.17		38	56.3	.443039	01583
28		40	38.94		47	9.0	.445017	01590
29		42	5.23	+ 11	55	20.7	.446977	01598
March 1		43	32.02	+ 12	3	31.2	.448918	01605
2		44	59.31		11	40.4	.450840	01612
3		46	27.09		19	48.5	.452742	01619
4		47	55.36		27	55.1	.454626	01626
5		49	24.10		36	0.4	.456492	01633
6		50	53.31		44	4.0	.458339	01640
7		52	22.99	+ 12	52	6.1	.460168	01647
8		53	53.13	+ 13	0	6.6	.461978	01654
9		55	23.71		8	5.2	.463770	01661
10		56	54.75		16	2.1	.465543	01667
11		58	26.23		23	57.1	.467298	01674
12	2	59	58.16		31	50.1	.469035	01681
13	3	1	30.52		39	41.3	.470753	01687
14		3	3.31		47	30.3	.472453	01694
15		4	36.53	+ 13	55	17.3	.474135	01701
16		6	10.17	+ 14	3	2.0	.475799	01707
17		7	44.22		10	44.5	.477445	01714
18		9	18.67		18	24.7	.479073	01720
19		10	53.53		26	2.4	.480682	01726
20		12	28.79		33	37.7	.482273	01733
21		14	4.43		41	10.5	.483846	01739
22		15	40.47		48	40.7	.485401	01745
23		17	16.88	+ 14	56	8.5	.486938	01752
24	3	18	53.67	+ 15	3	33.4	0.488457	0.01758

	1852.	R.A.			Decl.	Log Δ.	Time of Aberr. in Decimals of a Day.
		h	m	s			
March	25	3	20	30.83	+ 15 10 55.5	0.489958	0.01764
	26		22	8.35	18 14.8	.491441	01770
	27		23	46.21	25 31.0	.492906	01776
	28		25	24.43	32 44.2	.494353	01782
	29		27	2.99	39 54.4	.495782	01788
	30		28	41.88	47 1.6	.497194	01793
	31		30	21.11	+ 15 54 5.5	.498588	01799
April	1		32	0.65	+ 16 1 6.2	.499965	01805
	2	3	33	40.51	+ 16 8 3.6	0.501325	0.01811

EUNOMIA.

HAMBURG.

(M. C. Rümker.)

	1851.	Hamburg M.T.			R.A.	Decl.
		h	m	s		
Oct.	4	7	52	53.1	278 5 24.3	- 21 43 43.8
	8	7	4	14.0	279 10 12.0	21 29 50.3
	18	6	58	4.2	282 10 41.7	20 52 24.7
	25	6	46	19.8	284 29 49.3	- 20 24 45.7

EGERIA.

*Ephemeris** (continuation). By M. G. Rümker.

12^h Berlin Mean Time.

Date. 1852.	R.A. h m s	Decl. ° ' "	Log Δ.	Date. 1852.	R.A. h m s	Decl. ° ' "	Log Δ.
Jan. 1	12 14 2	+ 19 58.8	0.28730	Jan. 17	12 23 14	+ 20 33.9	0.24799
	2	14 49	+ 19 59.7	18	23 34	37.4	
	3	15 34	+ 20 0.7	19	23 52	41.0	
	4	16 17	1.9	20	24 9	44.9	
	5	16 59	3.3	21	24 24	48.8	0.23842
	6	17 39	5.0	22	24 37	52.9	
	7	18 18	6.9	23	24 48	+ 20 57.1	
	8	18 55	8.9	24	24 57	+ 21 1.6	
	9	19 30	11.1	25	25 5	5.9	0.22909
	10	20 4	13.4	26	25 10	10.5	
	11	20 36	15.9	27	25 14	15.2	
	12	21 6	18.6	28	25 15	20.0	
	13	21 35	21.3	29	25 15	24.9	0.22011
	14	22 2	24.2	30	25 13	29.9	
	15	22 28	27.3	31	12 25 8	+ 21 35.0	
	16	12 22 52	+ 20 30.6	Feb. 1	12 25 1	+ 21 40.2	

* From Professor Encke's elements, *Berliner Jahrbuch*, 1854.

Date. 1852.	R.A. h m s	Decl. ° '	Log Δ.	Date. 1852.	R.A. h m s	Decl. ° '	Log Δ.
Feb. 2	12 24 52	+21 45.5	0.21159	Feb. 17	12 18 47	+23 9.4	
3	24 41	50.8		18	18 7	14.9	0.18395
4	24 29	+21 56.2		19	17 26	20.3	
5	24 14	+22 1.7		20	16 43	25.7	
6	23 58	7.2	0.20365	21	15 58	31.0	
7	23 39	12.8		22	15 12	36.2	0.19791
8	23 18	18.4		23	14 24	41.2	
9	22 56	24.0		24	13 35	46.2	
10	22 33	29.7	0.19635	25	12 44	51.0	
11	22 7	35.4		26	11 51	+23 55.7	0.17528
12	21 38	41.1		27	10 57	+24 0.2	
13	21 8	46.8		28	10 1	4.6	
14	20 36	52.5	0.18975	29	9 4	8.8	
15	20 1	+22 58.2		Mar. 1	12 8 6	+24 12.9	0.17253
16	12 19 25	+23 3.8					

Note on the Planet Victoria.* By M. Yvon Villarceau.

" The ephemeris of the third planet discovered by Mr. Hind, which I have calculated for every day during six months and a half, depends on the observations during forty-three days. In publishing it, I presented at the same time a comparison of the meridian observations of Paris with my ephemeris. The observations of other astronomers during the whole period agree as well as I could expect with the ephemeris, the maximum errors being 0.66 in R.A. and 7".4 in declination.

" To obtain still greater accuracy, I have represented, graphically, the comparisons published by MM. Hartnup, Carrington, Vogler, and Graham, along with those of the observatories of Paris and Cambridge. I have also deduced comparisons from three months' observations made at Washington and collected by Mr. Ferguson. In this way I have constructed nearly 200 ordinates in right ascension and as many in declination, representing the excess of observation above the computations of the ephemeris. Through each of these series of points I have drawn a continuous curve, contenting myself, however, for the first forty days with satisfying, as far as was possible, the Paris meridian observations; and for the rest of the time, with satisfying the observations of Mr. Hartnup. My reasons for this preference are, the great accordance of the Paris observations, with one or two exceptions; and that Mr. Hartnup, whose observations also agree well together, has referred the planet to well-determined stars.

* M. Villarceau has used the name *Clio*; but Mr. Hind, the discoverer, in the exercise of his undoubted right, has selected the name of *Victoria*, a well-established heathen goddess.